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APPLICATION NO	.]	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/077,095	·. •	02/14/2002	Nikhil Jain	020128	1421
23696	7590	11/17/2003		EXAMINER	
Qualcomn	n Incorp	orated	HOANG,	HOANG, THAI D	
	Patents Department 5775 Morehouse Drive ART UNIT			PAPER NUMBER	
San Diego,				2667	
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
• •	Office Action Summer	10/077,095	JAIN ET AL.				
•	Office Action Summary	Examiner	Art Unit				
		Thai D Hoang	2667				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE N - Exten after: - If the - If NO - Failur - Any re	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Issions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period for the to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing digital patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1)⊠	Responsive to communication(s) filed on $\underline{16 \text{ S}}$	eptember 2003.	•				
2a)⊠	This action is FINAL . 2b)☐ This	action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
5)□ 6)⊠ 7)□	Claim(s) 1-10 and 18-27 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-10 and 18-27 is/are rejected. Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement. Application Papers							
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Example 135 U.S.C. §§ 119 and 120 Acknowledgment is made of a claim for foreign	epted or b) objected to by the I drawing(s) be held in abeyance. See tion is required if the drawing(s) is objected. Note the attached Office	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d). Action or form PTO-152.				
a)[* S 13)	All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat see the attached detailed Office action for a list acknowledgment is made of a claim for domest nce a specific reference was included in the firm 7 CFR 1.78. 1 The translation of the foreign language procedures the company of the company of the company of the company of the first sentence of the company of the c	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)). of the certified copies not receive ic priority under 35 U.S.C. § 119(e st sentence of the specification or ovisional application has been receive ic priority under 35 U.S.C. §§ 120	on No ed in this National Stage ed. e) (to a provisional application) in an Application Data Sheet. eeived. and/or 121 since a specific				
Attachment		<u>_</u>					
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of Informal P	(PTO-413) Paper No(s) Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-3, 6-8, 18-19 and 21-25 are rejected under 35 U.S.C. 102(a) as being unpatentable over Wiedeman et al, US patent no. 6,233,463 B1, hereafter referred to as Wiedeman.

Regarding claim 1, Wiedeman discloses a system configured for supporting wireless communication between a code division multiple access (CDMA) and both a GSM core infrastructure and an IS-41 core infrastructure (figures 6A-8B), comprising:

a first circuit communicating with the CDMA wireless signal, the first circuit communicating with the IS-41 core infrastructure (34, 44) using IS-41 protocol; and

a second circuit communicating with the CDMA wireless signal, the second circuit communicating with the GSM core infrastructure (36, 48) using GSM protocol (col. 12, line 45- col. 13, line 60). The system disclosed by Wiedeman inherently selects the first or the second circuit base on at least one message (user ID and/or location, and/or protocol...) from a mobile station, because the system cannot service for the mobile station without receiving at least one message from the mobile station to detect roaming or protocol type of the mobile station (col. 5, lines 1-59.)

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Regarding claim 7, the system disclosed by Wiedeman inherently selects the first or the second circuit base on at least one message (user ID and/or location, and/or protocol...) from a mobile station, because the system cannot service for the mobile station without receiving at least one message from the mobile station to detect roaming or protocol type of the mobile station (col. 5, lines 1-59.)

Regarding claims 3 and 8, Wiedeman does not explicitly disclose that the message is a location message. However, Wiedeman teaches that the system can detect a roaming user (col. 5, lines 1-59). It indicates that the system receives location message from the roaming user.

Regarding claim 6, Wiedeman discloses that the system configured for supporting wireless communication between a code division multiple access (CDMA) and both a GSM core infrastructure and an IS-41 core infrastructure, comprising:

a state machine selectively configurable to communicate with the IS-41 core infrastructure using IS-41 protocol (34, 44) or with the GSM core infrastructure using GSM protocol (36, 48), based on at least one identifier received from at least one MS.

Regarding claims 18 and 23, Wiedeman discloses that the system communicates with a first wireless mobile station (MS) having a subscription in a GSM core infrastructure (36, 48) and with a second wireless MS having a subscription in a CDMA infrastructure (34, 44) without requiring either MS to have more than a single subscription. Wiedeman discloses that the system comprises the step of:

receiving at least one identifier from at least one MS and based on the identifier, determining the core infrastructure in which the MS has a subscription

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undertaking authentication with the MS using information from the core infrastructure in which the MS has a subscription (fig. 6A-8B; col. 12, line 45 – col. 14, line 26, col. 17, lines 12-53); and

collecting accounting data using the core infrastructure in which the MS has a subscription (billing system 58).

Regarding claim 19, Wiedeman disclose that the interface 40 of the system receives wireless CDMA signal (col. 12, lines 52-54; col. 14, lines 25-27)

Regarding claim 21, Wiedeman discloses that the system receives an accounting data of an MS from the billing system (58).

Regarding claim 22, Wiedeman discloses that the method comprises the step of: using GSM protocol when the MS has a subscription in the GSM core infrastructure, and otherwise using IS-41 protocol when the MS has a subscription in the CDMA core infrastructure (fig. 6A-8B; col. 12, line 45 – col. 14, line 26, col. 17, lines 12-53.)

Regarding claim 24, Wiedeman discloses in figures 6A-8B that the system comprises: at east one storage device including an identifier (elements 34a-b, 38, 44, 50, 51, and 58); at least one radio communicating the identifier to a CDMA radio access network (CRFIS 40, RF 52); and one subscription in a GSM core infrastructure (48, 36)

Regarding claim 25, Wiedeman discloses that the system uses radio CDMA signal (col. 12, lines 52-54; col. 14, lines 25-27) and execute authentication with the GSM core infrastructure (36, 48) while the MS is located in an area serviced by a CDMA core infrastructure (fig. 1, 6A-8B; col. 12, line 45 – col. 14, line 26, col. 17, lines 12-53.)

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4-5, 9-10, 20, 26-27 rejected under 35 U.S.C. 103(a) as being unpatentable over Wiedeman in view of Bright et al, US Patent Application Publication No. 2002/0094811 A1, hereafter referred to as Wiedeman and Bright respectively.

Regarding claims 4 and 9, Wiedeman does not disclose that the location message includes an international mobile subscriber identifier (IMSI). However, Bright discloses a method and system for interworking and interoperability between GSM and another wireless system (figure 3). Bright discloses that the MS (356) performs a GPRS location update using its IMSI (col. 6, paragraph [0051]). It would have been obvious to one of ordinary skill in the art at the time the invention was made to adapt IMSI disclosed by Bright into the Wiedeman's system in order to improve service for customers because the serviced area for the customers is expanded.

Regarding claims 5 and 10, Wiedeman does not disclose that the system uses the IMSI to determine in which core infrastructure the MS has a subscription. However, Bright discloses that the system uses the IMSI to determine in which core infrastructure the MS has a subscription (figure 5; paragraph [0053]). It would have been obvious to one of ordinary skill in the art at the time the invention was made to adapt IMSI

disclosed by Bright into the Wiedeman's system in order to improve service for customers as mentioned in claim 4.

Regarding claims 20 and 26-27 Wiedeman does not explicitly disclose that the identifier is an IMSI. However, the system disclosed by Bright teaches that the system uses IMSI to update location of a user. It would have been obvious to one of ordinary skill in the art at the time the invention was made to adapt IMSI disclosed by Bright into the Wiedeman's system in order to improve service for customers as mentioned in claim 4.

Response to Arguments

Applicant's arguments filed on 16 September 2003 have been fully considered but they are not persuasive.

Regarding claims 1, 6, 18 and 23-24, on pages 7-8 of the remarks Applicants direct to col. 6, line 54 – col. 7 line 10 and argue that the reference requires the user has more than one subscription in order to be recognized by the system and it is considered to be a "bad message" otherwise, whereas the claim 1 recites "wherein the first or second circuit is selected based on at least one message from a mobile station (MS)". Examiner respectfully disagrees by the following reasons.

First, the reference disclose that the system detects and allows a mobile station using GSM protocol is registered and serviced in another network using AMPS (IS-41) protocol when roaming; col. 5, lines 1-63. Therefore, based on at least one message (user ID and/or location, and/or protocol...) from a mobile station system selects the GSM or AMPS circuit for servicing, because the system cannot service for the mobile

station without receiving at least one the message from the mobile station to detect roaming or protocol type of the mobile station (col. 5, lines 1-59).

Second, Examiner could not found any information in col. 6, line 54 – col. 7 line 10, as recited by Applicants, to conclude that the reference requires the user has more than one subscription in order to be recognized by the system. Even the reference teaches so, it meets the limitation recited in claim 1 "the circuit is selected based on at least one message [≥ 1] from a mobile station" (emphasis added).

Finally, the "bad message" recited in the remarks is one of 4 situations when the mobile station try to register to the other system; col. 6, lines 45-53. It does not mean "the user to have more than one subscription in order to be recognized, otherwise and it is considered to be a bad message" as recited in the remarks.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai D Hoang whose telephone number is (703) 305-3232. The examiner can normally be reached on Monday-Friday 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on (703) 305-4378. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

Thai Hoang

CHI PHAM

BY PATENT EXAMINER

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